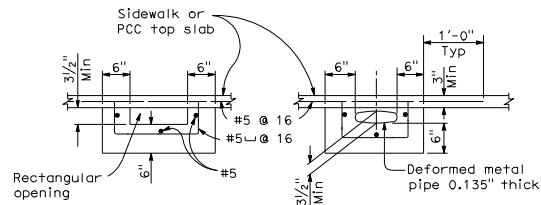
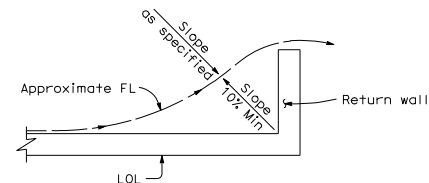
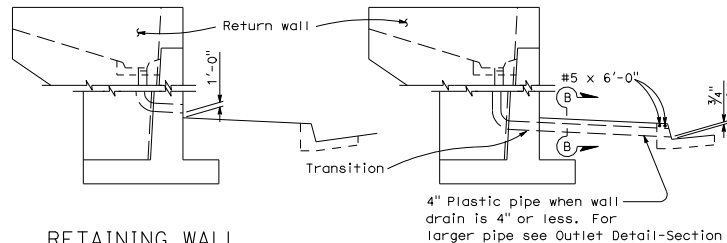


WALL DRAIN DETAIL

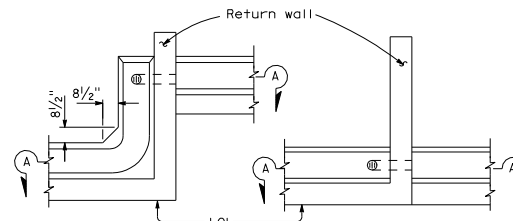
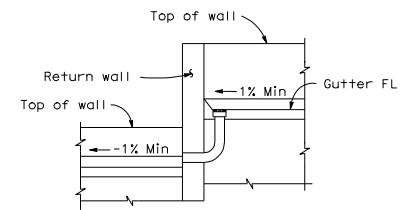


**NOTE:**  
Area of opening to be not less than that of pipe from wall gutter. Make opening transition in wall. Edge opening in curb face to  $\frac{3}{4}$ " minimum radius.

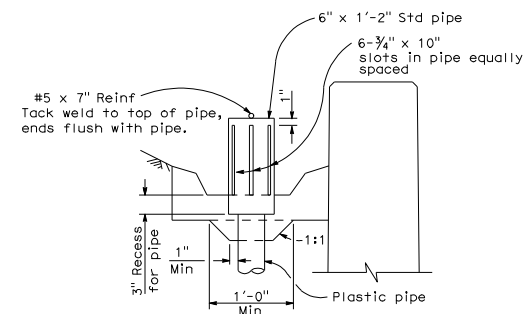
OUTLET DETAIL - SECTION B-B

WALL DRAINAGE  
WHERE GUTTER NOT REQUIREDRETAINING WALL,  
FACE OF WALL OUTLET

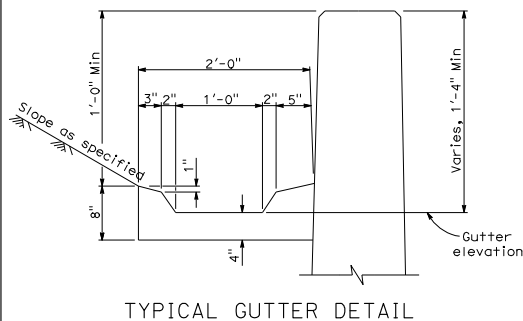
RETAINING WALL, GUTTER OUTLET

PLAN-OFFSET WALL  
DRAIN THROUGH RETURN WALL

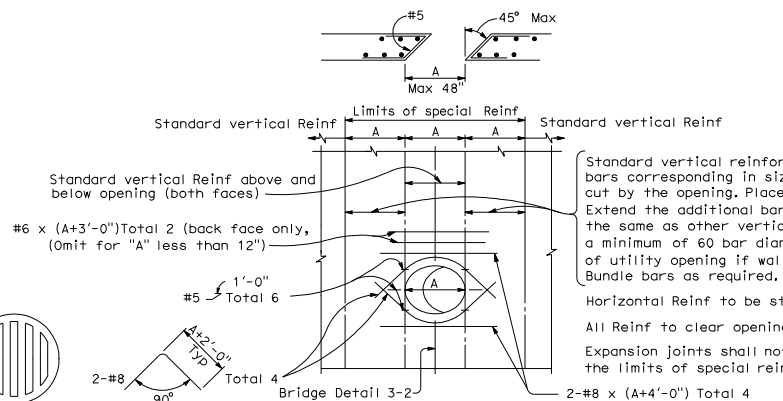
SECTION A-A



WALL DRAIN WITH PIPE DOME



TYPICAL GUTTER DETAIL

GRATE DETAIL  
Sizes to fit standard hubs

RETAINING WALL UTILITY OPENING

Max size of opening (A) = 48"  
To be used in conjunction with sheet **B3-8**

Standard vertical reinforcement plus additional vertical bars corresponding in size and number to bars cut by the opening. Place half on each side. Extend the additional bars into the footing the same as other vertical wall reinforcement and to a minimum of 60 bar diameters above the top of utility opening if wall height permits. Bundle bars as required.

Horizontal Reinf to be standard except as shown.

All Reinf to clear opening by 2" minimum.

Expansion joints shall not be located within the limits of special reinforcing.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**RETAINING WALL  
DETAILS No. 2**

NO SCALE

**B3-9**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

REGISTERED CIVIL ENGINEER  
May 1, 2006  
PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.  
To get to the Caltrans web site, go to <http://www.dot.ca.gov>

REGISTERED PROFESSIONAL ENGINEER  
Overcomey, Y. Hsu  
No. C45803  
Exp. 12-31-06  
CIVIL  
STATE OF CALIFORNIA